SUBJECT INDEX

Anchor bolts
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Arching
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.

Architecture
Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

ASCE Conventions
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

ASCE Technical Divisions
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Beams
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Global Optimum Design of Cold-Formed Steel Z-Shape Beams, Asim Karim and Hojjat Adeli, SC Feb. 99, p17-20.

Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Bending moments
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Boring
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Bracing
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

Bridge decks
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Bridge maintenance
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Bridges, concrete
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Bridges, suspension
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Carbon
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Case reports
Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, Robert F. Borg, P.E., SC Nov. 99, p153-155.

Cast-in-place structures
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Codes
Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

Cold-formed steel
Global Optimum Design of Cold-Formed Steel Z-Shape Beams, Asim Karim and Hojjat Adeli, SC Feb. 99, p17-20.

Colorado
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Columns
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Communication
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Communication skills
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Community relations
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Composite materials
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Computation
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

Computer networks
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Computers
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Concrete
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Concrete construction
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Concrete masonry
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Concrete, post-tensioned
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Concrete, reinforced
Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Concrete structures
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Conduits
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Configuration
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Confinement
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Connections
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Construction
Construction Forum, Bill Badger, P.E., SC Feb. 99, p9-12.

Construction Forum, Cliff Schexnayder, P.E., SC Nov. 99, p130.

Letter to the Editor: Dear Mr. Periodical Sir: (ltr), William R. Nash, SC Aug. 99, p83-82.

Construction companies
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Construction industry
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Construction management
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Fixing the Troubled Construction Project: A Game Plan, Terry W. Towle, P.E., SC Feb. 99, p29-32.

Wisdom in Managing the Construction Process, William W. Badger, P.E., SC Aug. 99, p92-95.

Construction planning
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Construction sites
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Contracting
Construction Forum, Bill Badger, P.E., SC Feb. 99, p9-12.

Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Contractors
Flight of the Condaire, Malcom Sweet, SC May 99, p75-76.

Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, Robert F. Borg, P.E., SC Nov. 99, p153-155.

Cooperation
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Creativity
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Curing
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Curricula
Construction Forum, Cliff Schexnayder, P.E., SC Nov. 99, p130.

Design
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Two-Way Slab Design Expert System, Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97.

Disturbances
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Drilling
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Economic factors
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Embedment
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Emissions
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Employee relations
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Engineering
Wood Engineering and Construction Handbook, edited by Keith Faherty and Thomas Williamson, Bill Nash, SC Aug. 99, p124.

SUBJECT INDEX

Anchor bolts
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Arching
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.

Architecture
Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

ASCE Conventions
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

ASCE Technical Divisions
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Beams
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Global Optimum Design of Cold-Formed Steel Z-Shape Beams, Asim Karim and Hojjat Adeli, SC Feb. 99, p17-20.

Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Bending moments
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Boring
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Bracing
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

Bridge decks
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Bridge maintenance
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Bridges, concrete
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Bridges, suspension
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Carbon
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Case reports
Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, Robert F. Borg, P.E., SC Nov. 99, p153-155.

Cast-in-place structures
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Codes
Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

Cold-formed steel
Global Optimum Design of Cold-Formed Steel Z-Shape Beams, Asim Karim and Hojjat Adeli, SC Feb. 99, p17-20.

Colorado
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Columns
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Communication
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Communication skills
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Community relations
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Composite materials
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Computation
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

Computer networks
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Computers
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Concrete
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Concrete construction
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Concrete masonry
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Concrete, post-tensioned
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Concrete, reinforced
Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Concrete structures
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Conduits
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Configuration
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Confinement
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Connections
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Construction
Construction Forum, Bill Badger, P.E., SC Feb. 99, p9-12.

Construction Forum, Cliff Schexnayder, P.E., SC Nov. 99, p130.

Letter to the Editor: Dear Mr. Periodical Sir: (ltr), William R. Nash, SC Aug. 99, p83-82.

Construction companies
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Construction industry
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Construction management
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Fixing the Troubled Construction Project: A Game Plan, Terry W. Towle, P.E., SC Feb. 99, p29-32.

Wisdom in Managing the Construction Process, William W. Badger, P.E., SC Aug. 99, p92-95.

Construction planning
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Construction sites
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Contracting
Construction Forum, Bill Badger, P.E., SC Feb. 99, p9-12.

Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Contractors
Flight of the Condaire, Malcom Sweet, SC May 99, p75-76.

Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, Robert F. Borg, P.E., SC Nov. 99, p153-155.

Cooperation
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Creativity
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Curing
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Curricula
Construction Forum, Cliff Schexnayder, P.E., SC Nov. 99, p130.

Design
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Two-Way Slab Design Expert System, Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97.

Disturbances
Dealing with Nighttime Construction Nuisances, Cliff J. Schexnayder, SC May 99, p77-82.

Drilling
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Economic factors
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Embedment
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Emissions
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Employee relations
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Engineering
Wood Engineering and Construction Handbook, edited by Keith Faherty and Thomas Williamson, Bill Nash, SC Aug. 99, p124.

Evaporation
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Expert systems
Two-Way Slab Design Expert System, Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97.

Failures
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Fiber reinforced plastics
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Fills
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.

Finite element method
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Flexural strength
Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Flexure
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Floors
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Frames
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Geographic information systems
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Graphical analysis
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Guidelines
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

History
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Human factors
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Humidity
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Information
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Innovation
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Installation
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Insurance
Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, Robert F. Borg, P.E., SC Nov. 99, p153-155.

Interfaces
Two-Way Slab Design Expert System, Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97.

Joists
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Knowledge-based systems
Two-Way Slab Design Expert System, Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97.

Lateral loads
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Leadership
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.
Wisdom in Managing the Construction Process, William W. Badger, P.E., SC Aug. 99, p92-95.

Loads
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Management
Construction Forum, Cliff Schexnayder, P.E., SC Nov. 99, p130.
Fixing the Troubled Construction Project: A Game Plan, Terry W. Towle, P.E., SC Feb. 99, p29-32.
Letter to the Editor: Dear Mr. Periodical Sir: (ltr), William R. Nash, SC Aug. 99, p83-82.

Management systems
Bridge Management System for the City and County of Denver, Kevin L. Rens, P.E., Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136.

Marketing
Establishing a World Wide Web Presence, Indunil Seneviratne, Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74.

Masonry
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Matrices, mathematics
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

Mechanical engineering
Flight of the Condaire, Malcom Sweet, SC May 99, p75-76.

Methodology
Fixing the Troubled Construction Project: A Game Plan, Terry W. Towle, P.E., SC Feb. 99, p29-32.

Microtunneling
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Moisture
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Moments
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Mortars
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Neural networks
Global Optimum Design of Cold-Formed Steel Z-Shape Beams, Asim Karim and Hojjat Adeli, SC Feb. 99, p17-20.

Optimal design
Global Optimum Design of Cold-Formed Steel Z-Shape Beams, Asim Karim and Hojjat Adeli, SC Feb. 99, p17-20.

Panels
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, Roger D. Flanagan and Richard M. Bennett, SC Aug. 99, p105-110.

Performance
Construction Forum, Bill Badger, P.E., SC Feb. 99, p9-12.
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Personnel management
Wisdom in Managing the Construction Process, William W. Badger, P.E., SC Aug. 99, p92-95.

Pipes
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Problem solving
Letter to the Editor: Dear Mr. Periodical Sir: (ltr), William R. Nash, SC Aug. 99, p83-82.

Productivity
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Project evaluation
Fixing the Troubled Construction Project: A Game Plan, Terry W. Towle, P.E., SC Feb. 99, p29-32.

Project management
Fixing the Troubled Construction Project: A Game Plan, Terry W. Towle, P.E., SC Feb. 99, p29-32.

Projects
Letter to the Editor: Dear Mr. Periodical Sir: (ltr), William R. Nash, SC Aug. 99, p83-82.

Quality control
Flight of the Condaire, Malcom Sweet, SC May 99, p75-76.

Repairing
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Research
Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Retrofitting
Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Reviews
Wood Engineering and Construction Handbook, edited by Keith Faherty and Thomas Williamson, Bill Nash, SC Aug. 99, p124.

Roof failures
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

Safety analysis
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Seismic response
New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Service loads
Calculating Service Moment Capacity of Anchor Bolted Connections, M. A. McNeff, P.E., SC Feb. 99, p33-35.

Sewers
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Shear strength
Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

Shotcrete
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Shrinkage
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Slabs
Two-Way Slab Design Expert System, Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97.

Soil cement
Structural Design Forum, Carl J. Lehman, P.E., SC Feb. 99, p1-8.

Soil conditions
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Specifications
Construction Forum, Bill Badger, P.E., SC May 99, p54-55.

Stability
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Stainless steel
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Standards
Flight of the Condaire, Malcom Sweet, SC May 99, p75-76.

Steel
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, T. N. Ganju, SC Nov. 99, p147-152.

New Configuration of Lateral Steel for RC Columns, Y. L. Mo and M. L. Hwang, SC Aug. 99, p111-118.

Steel columns
Design of Steel Columns in Unbraced Frames Using Notional Loads, Jon A. Schmidt, P.E., SC Feb. 99, p24-28.

Stiffness
Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Strength
Structural Design Forum, Carl J. Lehman, P.E., SC Aug. 99, p85-91.

Structural members
Dichotomy in ACI 318 Shear Strengths, Hans Gesund, SC Nov. 99, p137-138.

Structural steels
Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, Christopher M. Foley and Evan R. Buckhouse, SC Feb. 99, p36-42.

Structure reinforcement
Structural Design Forum, Carl J. Lehman, P.E., SC Nov. 99, p125-129.

Supervision
Wisdom in Managing the Construction Process, William W. Badger, P.E., SC Aug. 99, p92-95.

Teamwork
Leadership in the Construction Industry, David M. Spatz, SC May 99, p64-68.

Temperature
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Temporary structures
Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, Robert F. Borg, P.E., SC Nov. 99, p153-155.

Testing
Concrete-Moisture-Vapor-Emission Mechanics, Rick Kercheval, SC Aug. 99, p96-104.

Thermal stresses
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Timber construction
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

Wood Engineering and Construction Handbook, edited by Keith Faherty and Thomas Williamson, Bill Nash, SC Aug. 99, p124.

Training
Construction Forum, Cliff Schexnayder, P.E., SC Nov. 99, p130.

Trenchless technology
Microtunneling Technology for Conduit Construction, Michael B. Myers, Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63.

Trusses
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

Utilities
Horizontal Directional Boring at Lewis Prison Complex, Michael D. Tulloss and Cliff J. Schexnayder, SC Aug. 99, p119-129.

Walls
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Weather
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Welds
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, Philip C. Terry, P.E., SC Feb. 99, p13-16.

Wind forces
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, Ashley C. Carden and George E. Ramey, SC Nov. 99, p139-146.

Wind loads
Structural Design Forum, Carl J. Lehman, P.E., SC May 99, p43-53.

Wood
Wood Engineering and Construction Handbook, edited by Keith Faherty and Thomas Williamson, Bill Nash, SC Aug. 99, p124.

Wood products
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

Wooden structures
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, Frank E. Woeste, P.E., SC Feb. 99, p21-23.

AUTHOR INDEX

Abraham, Dulcy M.
see Myers, Michael B., SC May 99, p56-63

Adeli, Hojjat
see Karim, Asim, SC Feb. 99, p17-20

Badger, Bill, P.E.
Construction Forum, SC Feb. 99, p9-12
Construction Forum, SC May 99, p54-55

Badger, William W., P.E.
Wisdom in Managing the Construction Process, SC Aug. 99, p92-95

Bennett, Richard M.
see Flanagan, Roger D., SC Aug. 99, p105-110

Borg, Robert F., P.E.
Pitfalls in Builder's Risk Insurance for Temporary Structures in Construction, SC Nov. 99, p153-155

Buckhouse, Evan R.
see Foley, Christopher M., SC Feb. 99, p36-42

Carden, Ashley C.
Weather Exposure and Its Effect on Bridge Deck Curing in Alabama, with George E. Ramey, SC Nov. 99, p139-146

Flanagan, Roger D.
Arching of Masonry Infilled Frames: Comparison of Analytical Methods, with Richard M. Bennett, SC Aug. 99, p105-110

Foley, Christopher M.
Method to Increase Capacity and Stiffness of Reinforced Concrete Beams, with Evan R. Buckhouse, SC Feb. 99, p36-42

Ganju, T. N.
Angle and Z Beams in Bending: Tensor Matrix Method for Spreadsheets, SC Nov. 99, p147-152

Gesund, Hans
Dichotomy in ACI 318 Shear Strengths, SC Nov. 99, p137-138

Gruber, Terry, P.E.
see Rens, Kevin L., P.E., SC Nov. 99, p131-136

Hwang, M. L.
see Mo, Y. L., SC Aug. 99, p111-118

Iseley, Tom
see Myers, Michael B., SC May 99, p56-63

Johnson, Lynn E., P.E.
see Rens, Kevin L., P.E., SC Nov. 99, p131-136

Karim, Asim
Global Optimum Design of Cold-Formed Steel Z-Shape Beams, with Hojjat Adeli, SC Feb. 99, p17-20

Kercheval, Rick
Concrete-Moisture-Vapor-Emission Mechanics, SC Aug. 99, p96-104

Lehman, Carl J., P.E.
Structural Design Forum, SC Feb. 99, p1-8
Structural Design Forum, SC May 99, p43-53
Structural Design Forum, SC Aug. 99, p85-91
Structural Design Forum, SC Nov. 99, p125-129

Longinow, Anatol
disc. (of Two-Way Slab Design Expert System, by Y. L. Mo and K. H. Shih, SC Aug. 97, p95-97), SC Aug. 99, p122

McNeff, M. A., P.E.
Calculating Service Moment Capacity of Anchor Bolted Connections, SC Feb. 99, p33-35

Mo, Y. L.
New Configuration of Lateral Steel for RC Columns, with M. L. Hwang, SC Aug. 99, p111-118
Two-Way Slab Design Expert System, with K. H. Shih, SC Aug. 97, p95-97
disc: Anatol Longinow, SC Aug. 99, p122
clo: SC Aug. 99, p122-123

Myers, Michael B.
Microtunneling Technology for Conduit Construction, with Thomas W. Stickrod, Dulcy M. Abraham and Tom Iseley, SC May 99, p56-63

Nash, Bill
Wood Engineering and Construction Handbook, edited by Keith Faherty and Thomas Williamson, SC Aug. 99, p124

Nash, William R.
Letter to the Editor: Dear Mr. Periodical Sir: (ltr), SC Aug. 99, p83-82

Neiman, Yvonne M.
see Rens, Kevin L., P.E., SC Nov. 99, p131-136

Nogueira, Carnot L.
see Rens, Kevin L., P.E., SC Nov. 99, p131-136

Ramey, George E.
see Carden, Ashley C., SC Nov. 99, p139-146

Rens, Kevin L., P.E.
Bridge Management System for the City and County of Denver, with Carnot L. Nogueira, Yvonne M. Neiman, Terry Gruber, P.E. and Lynn E. Johnson, P.E., SC Nov. 99, p131-136

Schexnayder, Cliff
see Seneviratne, Indunil, SC May 99, p69-74

Schexnayder, Cliff, P.E.
Construction Forum, SC Nov. 99, p130

Schexnayder, Cliff J.
Dealing with Nighttime Construction Nuisances, SC May 99, p77-82
see Tulloss, Michael D., SC Aug. 99, p119-129

Schmidt, Jon A., P.E.
Design of Steel Columns in Unbraced Frames Using Notional Loads, SC Feb. 99, p24-28

Seneviratne, Indunil
Establishing a World Wide Web Presence, with Cliff Schexnayder and Avi Wiesel, SC May 99, p69-74

Shih, K. H.
see Mo, Y. L., SC Aug. 97, p95-97

Spatz, David M.
Leadership in the Construction Industry, SC May 99, p64-68

Stickrod, Thomas W.
see Myers, Michael B., SC May 99, p56-63

Sweet, Malcom
Flight of the Condaire, SC May 99, p75-76

Terry, Philip C., P.E.
Analysis of Thermal Stresses at Dissimilar Metal Pipe Welds, SC Feb. 99, p13-16

Towle, Terry W., P.E.
Fixing the Troubled Construction Project: A Game Plan, SC Feb. 99, p29-32

Tulloss, Michael D.
Horizontal Directional Boring at Lewis Prison Complex, with Cliff J. Schexnayder, SC Aug. 99, p119-129

Wiesel, Avi
see Seneviratne, Indunil, SC May 99, p69-74

Woeste, Frank E., P.E.
Impact of Permanent Diagonal Bracing on Different MPC Wood Truss Types, SC Feb. 99, p21-23